

CLAIMS:

1. A lighting system provided with a light-emitting panel (1) comprising a front wall (2), a rear wall (3) situated opposite thereto, at least one light source (6) comprising a light-emitting diode (7) provided with a translucent lens-shaped cover (8),
5 at least one light input structure (4) for coupling light from the light source (6) into the light-emitting panel (1),
wherein, during operation, light originating from the light source (6) is incident on the light input structure (4) and distributes itself in the light-emitting panel (1), characterized
10 in that the light input structure (4) is conically or frustoconically shaped towards the light source (6), and
in that the thickness d_p of the light-emitting panel (1) is smaller than the diameter d_c of the translucent lens-shaped cover (8) of the light source (6).
- 15 2. A lighting system as claimed in claim 1, characterized in that the light input structure (4) is of prismatic or pyramidal shape.
3. A lighting system as claimed in claim 1 or 2, characterized in that the light input structure (4) is an integral part of the light-emitting panel (1).
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4. A lighting system as claimed in claim 1 or 2, characterized in that light-guidance means (9) are provided in the vicinity of the light source (6) and the light-emitting panel (1) so as to encompass the light input structure (4), said light-guidance means (9) guiding the light originating from the light source (6) towards the light input structure (4).
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5. A lighting system as claimed in claim 4, characterized in that a surface of the light-guidance means (9) facing the light input structure (4) is reflective or provided with a reflective material.

6. A lighting system as claimed in claim 4 or 5, characterized in that the light-guidance means (9) are elliptically shaped.
7. A lighting system as claimed in claim 4 or 5, characterized in that the light-guidance means (9) are faceted.
8. A lighting system as claimed in claim 1 or 2, characterized in that the light-emitting diode (7) has a luminous flux of at least 10 lm.
9. A display device provided with a lighting system as claimed in claim 1 or 2.
10. A display device as claimed in claim 9, which display device comprises a liquid crystal display (12).